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J. JENKINS

Editorial

Religion In the Space Age

Far from limiting the importance of religion, our modern scientific advances underscore the need for a more dynamic and vital religious faith. In the race to conquer space, we should not lose sight of moral and spiritual values. For, when the count reaches zero, all we can do is pray.

Certainly the U. S. needs the best possible system of military defense. But our real security is based on the spiritual strength of the American people. Fundamentally, we grow stronger as we come to depend more upon God's help for the courage and patience to live through these trying times.

That is why we cannot entrust the safety of our future solely to our growing military establishment. Our future is in God's hands, and we must look to Him in prayerful humility for the disciplined strength of character and spirit needed to win through to a world of peace and justice.

We are living in a truly remarkable age. Now that satellites are commonplace, and the energy of the atom is being used increasingly for peaceful purposes, we can look forward hopefully to even greater scientific revelations and achievements.

These will be further evidences of not only what man can achieve but also of the marvelous universe God has created. As the universe yields its secrets, new and immense dimensions will be added to man's knowledge of God's Creation.

That is why the national Religion in American Life Program calls upon all Americans to worship regularly in the House of God. In acknowledging that all final power over this world remains in God's hands, it is possible to "Find the strength for your life."

The Christmas season offers all of us an excellent opportunity to renew our ties with the church of our choice and to resolve that in the New Year we will make regular church attendance a part of our weekly pattern of living.

Report on A Decade

This issue of the **Sandia Corporation Lab News** is somewhat of a milestone. It was 10 years ago yesterday that the first printed Sandia employee publication was distributed. This issue is the 265th to go to Sandia employees.

Starting off with a modest format, the publication was first known as the **Sandia Bulletin**. Later the name was changed to the **Sandia Lab News** and after Sandia Corporation opened Livermore Laboratory in California the title became **Sandia Corporation Lab News**.

Despite fears 10 years ago that the publication would soon run out of news due to limitations of security, the **Lab News** continually finds itself faced with a surplus-of-material problem.

Perhaps the next 10 years, with the advent of new peacetime applications of atomic energy, will see new areas of coverage open up for the **Lab News**.

However, the paper will continue to be mainly about Sandia people and for Sandia people. We hope they continue to provide us with material so we may tell of their lives, their work, their tribulations, and their triumphs.

Above all, we hope Sandia Corporation becomes even better known to its employees and these employees better known to each other.—The Editor



Alena Opperman (8232-1)

Take a Memo, Please

Avoid holiday hazards so you will have a Merry Christmas and a Happy New Year.

Wanted (Badly):
Copy Jan. 22, 1960,
Issue of Lab News

The LAB NEWS maintains a file of back issues of the paper which is used for reference purposes and special requests. The file is complete except for the issue of Jan. 22, 1960. If any employee has a copy of this particular paper, the LAB NEWS would certainly like to have it. Send it to LAB NEWS, Org. 3431-1, Bldg. 829.

In "Who's Who"

Ellen Cunningham (8233-2) has been recognized in the current issue of "Who's Who in the West" for her work with amateur choral organizations in Livermore and elsewhere.

Ellen, who is also listed in "Who's Who of American Women," has served in Livermore as director of choirs at the First Presbyterian Church, and chairman of the Livermore Valley Festival of Sacred Music. She also has been active in choir work elsewhere in California and New Mexico.

Congratulations

Born to:

Mr. and Mrs. John Kinney (1423) a son, Michael John, on Nov. 20. Kinney formerly worked in Division 4151.

Mr. and Mrs. Orville L. Howard (7234) a daughter, Rene Suzanne, on Dec. 1. Georgia formerly worked in Division 3126.

Mr. and Mrs. William E. Walker (7133-3) a son, Jeffrey, on Nov. 29.

Mr. and Mrs. George L. Adkins (7133-2) a son, Lawrence Allen, on Dec. 4.

Mr. and Mrs. John R. Ames (1424-3) a daughter, Christine Elizabeth, on Nov. 21.

Mr. and Mrs. K. W. Drake (2541) a son, Raymond Earl, on Dec. 10.

Mr. and Mrs. Esquipulo Baca (8232-2) a son, John Peter, on Dec. 4.

Mr. and Mrs. George Grant (4152-2) a son, Gregory George, on Dec. 9.

Mr. and Mrs. Warren Arthur (4573) a daughter on Dec. 2.

Mr. and Mrs. Larry Tichenor (4224-2) a daughter, Tammara Rochelle, on Dec. 18.

G. A. Fowler Visits
Sandia Office at
Cape Canaveral

Sandia Corporation Field Test personnel at Cape Canaveral were visited recently by Glenn A. Fowler, Vice President, Development, 7000.

Mr. Fowler gave an informal briefing on activities at Sandia Laboratory. Afterwards Mr. Fowler and V. K. Smith, supervisor of AFMTC Operations Section, inspected the missile facilities on the Cape. This inspection included a quick look at the Mercury project.

A dinner at Holiday Inn, Cocoa Beach, was attended by G. A. Fowler, V. K. Smith, R. D. Pace, W. L. Gault, W. M. Snyder, W. P. Roper, G. W. Mead and Letha Stewart. During dinner the dining room was empty for a brief time as everyone ran out to see the launching of an Atlas missile.

Christmas Parties

Wrapping up the many organization Christmas parties held at Livermore Laboratory will be the Division 8116 party planned for tonight at the home of Chris Laggis (8116-2) and the 8114-3 party at the home of Alyce Loveless (8114-3). Arrangements for the 8116 party were made by Barbara Cordoza (8116-2), Bobbie Myers (8116), and Irmal Brown (8116-2).

Nat'l Golf Officer

John Olson (4424) was elected secretary of the Western Senior Amateur Golfers Association, which organized during the national tournament Dec. 7-11 at Palm Springs, Calif.

The association covers an 11-state area.



NOVEL CHRISTMAS TREE and bell, shown here with Phyllis Bell and Carlene Mohr (both of 8115) were made from scraps of paper honeycomb. The honeycomb was developed by the Materials Application Division (8115). Phyllis shows what the tree looks like before it is finally assembled.

Lu Nelson Sings

Featured vocal soloist at the second annual fall rally of the Christian Women of the U.S.A., held Dec. 3 in Oakland, was contralto Lu Nelson (8233-2) of Livermore Laboratory. Lu sang five solos for the 400 women present and led group singing to round out the musical program.

7300 Holiday Party

A "Holiday Party" will be held by members of 7300 in the Coronado Club ballroom from 8:30 p.m. to 12:30 on Dec. 30. Chips and dips will be provided for guests, according to co-chairmen Bill Johnson (7321) and R. L. Henderson (7311). Tommy Kelly's combo will play for dancing.



LITTLE GIRLS' DELIGHT are these miniature dolls made by Sondra Hunter (8212-3), Livermore Lab News reporter.



LARGE CHRISTMAS tree, made from aluminum shavings and scraps, was created by Pauline LaForest (left) and Inez Gay for the enjoyment of their co-workers in Section 4234-1. A winter scene complete with snow and twinkling stars completes the setting. The section plans a holiday dinner sometime later this month.

Warm Weather
Wanderers

A tropical Christmas is planned by Cecile McIntosh (8212-3) and Lorena Schneider (8100) of Livermore Laboratory. They left Dec. 20 by plane, bound for the Yucatan Peninsula in Mexico.

Their itinerary includes eight days in Yucatan, where they will visit world famous Mayan temples, buildings, and village ruins in the archaeological wonderland. Part of the trip in the Yucatan jungles will be by Model T Ford or Jeep, provided by a local travel agency.

They plan to celebrate New Year's Eve in Mexico City and spend an additional week sight-seeing in the capital city, taking in a bull fight on New Year's Day.

Wedding

Congratulations are extended to Evelyn Cook (4423) and Harry Schultz on their recent marriage. The couple exchanged vows in Tucson, Ariz., and honeymooned in Guaymas, Mexico.

Evelyn has been with the Corporation since July 1951.

Ski Club Plans Trips

The Livermore Laboratory Ski Club presented a slide program at its second meeting of the season Dec. 21 and showed scenes of the ski area at Alta, Utah. The slides were furnished by Jim Hause, a security inspector at Livermore Laboratory.

The club is now planning trips for the coming season and persons wishing to participate should contact Barbara Atkinson (8114-3).

Jim Hay Back at
Sandia After Service
With U. S. Army

James L. Hay has returned to Sandia after military service to resume his training as an appren-



tice machinist in Project Section 4254-2.

During his two years in the Army, Jim was stationed most of the time at Hanford, Wash., where he was a sentry dog handler. He was in charge of four German shepherds.

Jim first came to work at Sandia in August 1956. His wife, the former Barbara Carey, also worked here before Jim went into the Army.

Sympathy

To Helen Besser (3220) for the death of her husband on Dec. 10.

To J. D. Benton (8122-1) for the death of his father in Livermore Nov. 27.

To S. G. Cain (8122-3) for the death of his father in Oklahoma Dec. 4.

To Glenn D. Wright (2724-2) for the death of his wife, Frances (3452), on Dec. 12.

To B. C. Brown (4224) for the death of his mother on Dec. 5.

To Henry Roeder (4224-3) for the death of his wife on Dec. 17.

To Walter Scott (4424) for the death of his son in New Jersey, Dec. 7.

Sandia Corporation
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NO SNOW in Livermore failed to daunt the Guy Willis family (8124) in getting into the spirit of the Christmas holidays. Here Guy and Doti Willis and their children (from top, left) Becky, 3, Dave, 6, and Mike, 8, get a possible preview of Christmas morning.



PANORAMA of Christmas in the Sierras during pioneer days, the theme of the Livermore Laboratory Christmas display, gets final touches from its designer Mill Taylor, left, and Frank Parr.



MINIATURE MODEL of Livermore Laboratory Christmas display is studied by Mill Taylor to determine proportions he will use in the finished product. The small model and the cut-out figures were made from heavy grade cardboard. Small twigs were used to simulate "trees."

Livermore Holiday Display Took Planning, Research

Livermore Laboratory is again featuring a display of traditional "luminarias" during the Christmas season, highlighted this year by the addition of a large California scene mounted on the roof of the administration building.

The huge scene, measuring 14 by 40 feet, depicts a Christmas celebration in the Sierras observed by the pioneers on their way west. The design is the work of Millard Taylor, technical illustrator in Section 8232-5, who was assisted by Frank Parr and Harold Peterson, both of 8222-2, in preparing the finished scene. "Mill" outlined the giant mural by projecting his original sketches onto large pieces of fiber board, tracing in the outlines and adding detail as he went along.

Mill spent a week of his vacation doing research for the projects in the archives of the State Capitol Building in Sacramento and in local libraries and historical societies. His research turned up old newspaper accounts describing early Christmas celebrations in California. The Livermore Laboratory library also helped by providing Mill with a bibliography listing articles written about California.

The final display, cut up in sections for ease in handling, was mounted on the roof of Bldg. 911 by personnel from the Maintenance Division (8222). They also assembled and mounted the 400 electric luminarias which outline

the building in a soft candle-like glow.

The Classified Chords, a recently organized Livermore Laboratory singing group under the direction of Ellen Cunningham (8233-2), will present an hour-long program of traditional carols tonight beginning at 7 p.m. The program, which will be presented from the steps of the administration building, weather permitting, will be open to employees and their families, as well as the general public.

For the benefit of camera fans who may wish to film the display, the photo lab (8123-3) suggests the following camera settings:

- Adjustable cameras—
 Ektachrome (outdoor) with 80B filter —90 sec., F4.5
 Ektachrome (outdoor) with no filter —50 sec., F4.5
 Ektachrome (indoor) Type F —30 sec., F4.5
 Kodachrome (indoor) —60 sec., F4.5
 Kodacolor —60 sec., F8
 Verichrome Pan —60 sec., F11
 Pan X —60 sec., F11
 Super Anscochrome —15 sec., F4.5

Simple cameras—
 Kodacolor, Verichrome Pan, Pan X —60 sec.
 Movie cameras—Existing films for simple motion picture cameras are not fast enough to register an image under lighting conditions to be found at the display.

The display will be up through Jan. 2, 1961.



TRICK OF THE TRADE is revealed by Mill Taylor as he projects his small sketches on fiber board for final outlining and coloring. Operating the projector in left foreground is Frank Parr.

Retirement in Mexico For R. M. Chesnut After 10 Sandia Years

Robert M. Chesnut, supervisor of Secretarial Services Division 3126, will retire the end of December after 10 years at Sandia.



In mid-January Mr. Chesnut plans to travel to Mazatlan on Mexico's west coast which he has visited many times during the past 12 years to take advantage of the excellent deep sea fishing. This time he hopes to complete arrangements for purchase of a motel there and part-ownership of a fishing boat.

Mr. Chesnut spent two years in Venezuela and two years in Brazil as a materials engineer before coming to Albuquerque.

Until Mr. Chesnut gets settled in Mexico he will have the temporary address of 12381 McLeod St., Garden Grove, Calif., his married daughter's home.

Properties of Quartz Subject of Papers by Two Sandia Authors

Two technical papers by Sandia authors will be presented at a meeting of the American Physical Society in Berkeley, Calif., Dec. 29-31.

The papers are "Shock Induced Luminescence of Quartz" by F. W. Neilson and W. P. Brooks (both 5133) and "The Piezoelectric Response of Quartz Beyond Its Hugoniot Elastic Limit" by F. W. Neilson and W. B. Benedick (5133).

Both papers received prior publication in the *Bulletin of the American Physical Society*.

AEC Seeks Bids for Work to Modify Sandia Electrical System

The Atomic Energy Commission has advised contractors that bids will be opened about Jan. 10 for modifications to the underground electrical system in Tech Area I of Sandia Laboratory.

The project will include installation of government-furnished equipment. Work is to be completed within 100 days after the contractor receives notice to proceed from the AEC.

Vern Easley (4543-1) is Plant Engineering Department project engineer.

Corporation Sends Christmas Gift To Seriously Ill

About 40 baskets of fancy fruit will be distributed by Sandia Corporation to Albuquerque employees hospitalized or seriously ill during the holiday season.

The recipients are determined by joint action of department managers, Services and Benefits Division and Health Services Department.

The fruit baskets are to be picked up in Bldg. 829 on Dec. 23 by the immediate supervisors of the ill employees.

Boxes containing assorted cheeses and candied fruits are mailed to ill employees living out of town.

A similar program is carried out at Livermore Laboratory and Salton Sea Test Base during the holiday season.

Frances H. Wright Died December 12

Frances H. Wright died at a hospital Dec. 12 after a lengthy illness.



Mrs. Wright was a record clerk in Operations Division 3452 and had been with the Corporation nearly eight years.

Funeral services were held Dec. 14 followed by burial at Sunset Memorial Park.

Survivors include her husband, (who works in Division 2724), a daughter Elizabeth, and a son Glenn D., Jr.

Welcome Newcomers

Dec. 5-16

Albuquerque	
Martha Ann Bullock	3461
*James L. Davis	3464
*Beverly J. Flowers	3126
Rosario Marquez	3126
Isabella P. Seeley	3126
Linda Kay Shaifer	3126
Dolores Ann Streater	3126
*William H. Swiss	2323
*Gloria P. Vetter	3126
New Hires at Livermore—Nov. 14-Dec. 2	
Diane M. Carlson, Brentwood, Calif.	8212-3
William W. Carter, Toledo, O.	8114-4
Albert M. Coloni, Oakley, Calif.	8225-3
Robert V. Coates, Alameda, Calif.	8121-1
Zelma M. Creager, Livermore, Calif.	8212-5
*Clare L. Grubbs, Livermore, Calif.	8212-5
Chester M. Hamlin, Albia, Iowa	8114-2
Harold E. Markham, Decatur, Ill.	8114-2
William A. Maxwell, Albuquerque, N. M.	8121-1
Virginia I. Mohr, Livermore, Calif.	8212-5
Alena R. Opperman, Castro Valley, Calif.	8232-1
Edwin H. Siniard, Denver, Colo.	8124
*Mack R. Wells, San Diego, Calif.	8124

* Denotes rehired



CHRISTMAS CAROLS will be presented by the Classified Chords at the opening of the Livermore Laboratory Christmas display Dec. 23. The Livermore Lab singing group, headed by Bill Mack (8122-4), is under the direction of Ellen Cunningham (8233-2). Accompanist is Hal Norris (8121).



OPERATING new electronic bookkeeping machine at the Credit Union, Karoline Redic posts entries while Peggy Leyva replenishes supply of ledger sheets. The machine has cut posting time by half over the previous method used and has reduced operating costs.

"Don't Worry"—Bellamy

New Credit Union Statements Cause Some Raised Eyebrows

Sandia employees these days are taking a second look at their quarterly Credit Union statements. The form has changed and at first glance it looks as though interest rates have skyrocketed.

"Not so," says Credit Union Manager Dale Bellamy. "Instead of showing only the monthly interest on the statement, our new system shows the total interest for the loan. Our rates are the same and are as low as or lower than any in New Mexico."

By new system, Dale is referring to a new electronic bookkeeping machine that makes posting the transactions of the Credit Union on individual ledger cards a highly automated operation.

The new machine is a recent purchase of the Sandia Laboratory federal Credit Union.

"In any given month," Dale says, "the number of entries indexed in the ledgers averages 111,650. Installation of the new equipment has reduced the number of manual operations to 27,011 and has cut the processing time at least by half."

Utilizing this system, which has reduced operating costs of the Credit Union, meant also a change in the individual statements since the new machine must show total interest charges in order to perform the rest of its amazing functions.

As the operator inserts the ledger sheets into the machine, she punches on the keyboard the code number of the employee and the one entry of the new transaction. The machine does the rest. It elec-

tronically positions the sheet, picks up the old balances which are stored on magnetic "stripes" on the back of ledger sheet, computes the new balances, prints the figures and ejects the ledger sheet. All of this in a matter of a couple of seconds.

The new operating procedure went into effect at the Credit Union after a complete survey by Business Methods Department 4110. The Credit Union was operating at top capacity using the old equipment and during peak periods, the staff of the Credit Union was working double shifts to keep up with the workload. It was the recommendation of 4110 that the new equipment and system be installed. It will level the current workload plus providing for future growth of the Credit Union.

"After this initial shakedown period using the new equipment and system," Dale says, "we should be able to show substantial reduction of operating costs plus improving the service we offer members."

One new service, which will begin next month, is to make available statements of total interest paid by members during the calendar year. Members will be mailed a form in January from which they can request the service.

"Please don't wait until the last minute before the income tax deadline," Dale says. "If you want the interest statement, just fill out the form and mail it back to the Credit Union right away. You will receive your statement within a couple of weeks."

Lynn E. Castle to Retire from Sandia End of December

Lynn E. Castle, a Western Electric Company employee since 1937 and at Sandia since 1951, will retire the end of this month. He is supervisor of Technical Training and Education Division 3132.

Long active in community service projects, Lynn will be devoting a large share of his time in coming months working to promote a statewide Great Decisions program. Lynn organized the first Great Decisions program in Albuquerque in 1959 and served two years as chairman.

Lynn also is active in CASA, Coordinated Action for Senior Adults, as a member of the Board of Directors and chairman of the education committee. Between these two activities he plans consulting work in the areas of education and communication as well as teaching two Sandia Out-of-Hours courses beginning in January.

Also in the planning stage is a trip to Phoenix, Ariz., to visit his son and two grandchildren. Lynn will continue to reside in Tijeras Canyon, mailing address Rt. 5, Box 5450, Albuquerque.

Lynn joined Western Electric Company's training organization in 1937 at the Hawthorne Works in Chicago working primarily in the area of management training. He was a Department Chief at Hawthorne when he came to Sandia.



JANET JENKINS
—Christmas Cover Artist—

Janet Jenkins Designs Lab News Front Page Christmas Design

Designer of the 1960 Lab News Christmas cover is Janet Jenkins, who was a summer employee in Technical Art Division, 3463.

At the present time, Janet is touring Europe where she plans to stay for about six months studying design and art. She graduated from the University of New Mexico in June with a degree in Fine Arts.



SALVATION ARMY building site was appropriate location for picture showing awarding of the 1959-60 ECP reserve fund to the agency. Present were (l to r) Harold Burrell (4224), Metal Trades Council president and member of the ECP committee; John B. Irick, vice chairman, Salvation Army advisory board; J. W. Hook (4110), ECP committee member, and Capt. Elmer E. Yardley, commanding officer, Albuquerque Corps, Salvation Army. Fund totalled \$1250.

ECP '59-'60 Reserve Fund Is Given to Salvation Army

The one per cent reserve fund of the 1959-60 Employees Contribution Plan drive has been presented to the Salvation Army for its current building fund.

The action was voted by the ECP committee. The fund totaled \$1250.

The emergency fund, if unused at the end of the year, is annually presented to the agency or agencies deemed most in need of the additional funds. Last year the emergency fund was given to the United Fund when that organization fell short in its yearly campaign. The previous year the money in the reserve fund was given to St. Anthony Home for Boys to help in their building fund drive.



Mr. Peterson

E. J. Peterson New President of Metal Trades Council

Edward J. Peterson (4253), a member of Machinists Local 1689, will be installed as president along with other newly-elected officers during a Jan. 4 meeting of the Metal Trades Council.

He succeeds Harold E. Burrell (4224), who served three years as president and did not seek reelection.

Other new officers are: vice president, Anthony N. Chaves (2721), International Brotherhood of Electrical Workers, Local 1988; secretary-treasurer, Joseph A. Maldonado (4624), Chemical Workers, Local 387; recording secretary, Leland L. Pierce (4224), Teamsters, Local 492; sergeant-at-arms, Glenn Haycock (4512), Boilermakers, Local 338.

The three trustees elected at the same time were: A. Millie Oberle (3462), Office Employees, Local 251; Max B. Miller (4514), Operating Engineers, Local 953, and Jose B. Jojola (4513), Painters, Local 823.

A. P. Gruer Helping Plan International Telemetry Conference

For the second year, Allan P. Gruer, manager of Quality Assurance Operations Department 7530, is heading an effort of the National Telemetry Conference Board of Directors to arrange an international telemetry conference in Europe in 1963.

Al was re-appointed chairman at a recent meeting of the NTC directors in Washington.

During his vacation in Europe in October, Al made several contacts with technical societies in connection with plans for the international telemetry conference. The British Institution of Electrical Engineers are considering hosting such a meeting in London in 1963. The NATO Advisory Group for Aeronautical Research and Development has also indicated support.

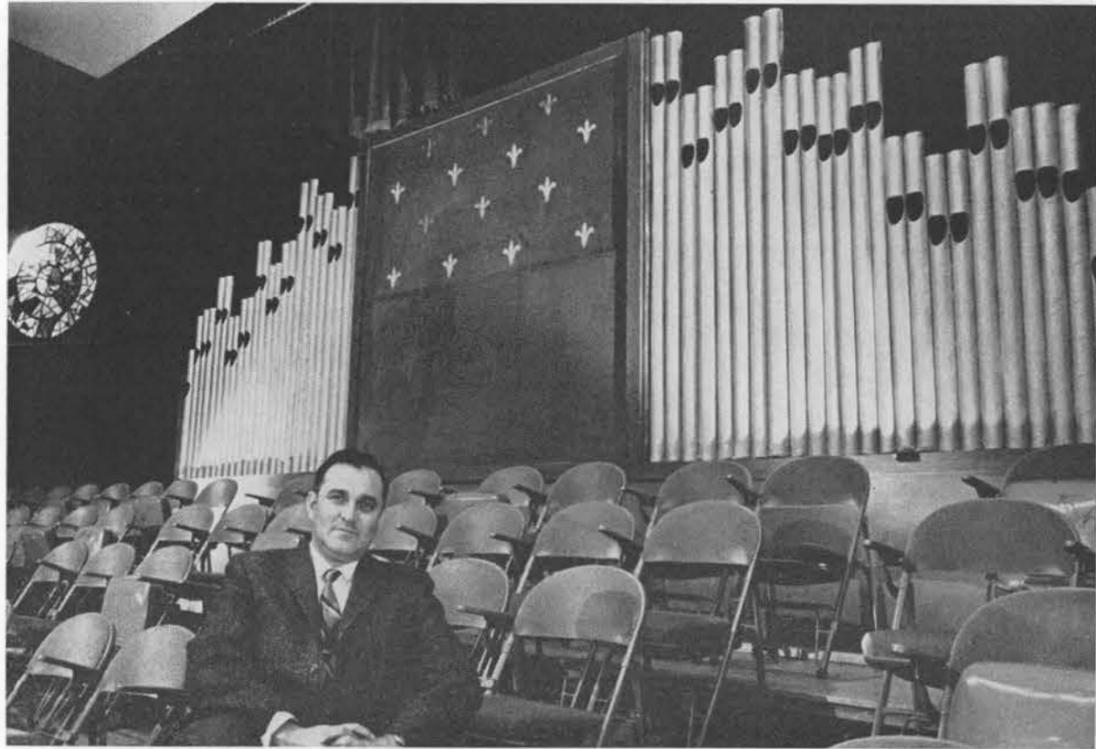
Entry Blanks Ready For Coronado Club's Bowling Tournament

Entry blanks for the Ninth Annual Coronado Club Bowling Tournament are now available from bowling league secretaries or at the club, according to D. R. Kvarnstrom (7184), tournament secretary.

Deadline for entering is Jan. 4, 1961. The ABC sanctioned tournament will have competition for five-man teams, doubles and singles in all events. Tournament will be played at the club Jan. 7 through 17, 1961.

Jan. 1 Deadline for Applications to Enroll At U. of New Mexico

All employees planning to enroll at the University of New Mexico for the first time must get their applications to the University's Office of Administration and Records by Jan. 1, 1961. This applies to both undergraduate and graduate students who intend to attend UNM during spring semester.



CATHEDRAL SETTING for the Albuquerque Theater Arts Center Christmas concert at the Civic Auditorium was designed by Alexander Jack (3311-1).

At the far left of the picture is a multi-colored stained glass window, also designed by "Jack." He learned set designing while in the Navy.

Supervisory Appointments

THOMAS E. ZUDICK to supervisor of the newly-created Motion Picture Production Section 3465-1, Motion Picture Division.



Tom has been at Sandia since May 1952, first as a TDSR in Field Testing, a short period in personnel placement, and the remainder of the period in Public Relations Division.

While in Public Relations he wrote the script and co-ordinated the production of "The Sandia Story" and wrote and directed "Research and Development Highlights," one of a series of public information films.

Prior to joining Sandia Tom was administrative assistant to the director of rocket development at the U.S. Naval Ordnance Test Station at Inyokern, Calif., for a year. He also worked a similar period in the accounting department at the National City Bank of New York.

He holds a BA degree in political science and economics from the University of New Mexico. Tom is a member of the New Mexico Public Relations Conference and is a former national director of the American Society for Public Administration.

During World War II he served from 1943-46 in the Navy.

JOHN C. WEYDERT to supervisor of Special Projects Section 7133-1, Aero and Thermodynamic Department.



John has been engaged in aerodynamic design since he came to Sandia Corporation in September 1952. Prior to employment here he was a valve designer three years for Edwards Valves Company in East Chicago, Ind. For one year before this time he was a research assistant on the research staff of Purdue University.

John earned his Bachelor's degree in mechanical engineering from Purdue in 1948 and a Master's of Science Engineering degree in 1951.

During World War II he was two and a half years with the Corps of Engineers stationed in Europe.

He is a member of Sigma Xi Research Honorary.

FERNE L. WHITE to supervisor of Product Information Processing Section 8161-1, Product Control Division.



Ferne joined Sandia Laboratory in 1953 and was assigned to the Standards Engineering Department where she processed engineering releases and engineering change orders. Later she assisted Drafting Services in scheduling and programming.

In 1957 Ferne transferred to the Product Definition Control Section at Livermore Laboratory, where she continued in engineering support activities. She became a Staff Assistant in April 1959.

Before coming to Sandia, Ferne was employed by the Continental Oil Company in Ponca City, Okla., for two and one-half years, and was chief accountant for a ready-mix concrete company in Ponca City for 16 years.

A native of Oklahoma City, Ferne attended Washburn College in Topeka, Kans. She also attended evening courses at Northwestern State College, Weatherford, Okla., and the University of New Mexico.

WILLIAM D. ULRICH, JR., to supervisor of Section 7183-1, Weapon Compatibility and Applications Division.



"Bill" has been with Sandia Corporation five and a half years. During that period he has been connected with the same project although it has been the responsibility of different organizations.

Prior to coming here he received a Bachelor's degree in mechanical engineering from the University of Arizona.

He is a member of Theta Tau, professional engineering fraternity, and Tau Beta Pi engineering honorary.

During World War II, Bill served three years in the Marine Corps.

KENNETH L. GOIN to supervisor of newly-created Hypersonic Tunnel Section 7132-3, Aero and Thermodynamics Department.



Ken has been at Sandia two years this month engaged in applied aerodynamic research.

For six years prior to joining Sandia, Ken was employed by Convair at Daingerfield, Tex., engaged in experimental and theoretical aerodynamics projects.

Prior to this he held the position of aeronautical research scientist with the National Advisory Committee for Aeronautics at Langley Field, Va.

During World War II, he was an officer aboard a mine sweeper which saw sea duty in both the Pacific and Atlantic.

Ken received his Bachelor's degree in mechanical engineering from Oklahoma University in 1944.

M. DWAYNE BENNETT to supervisor of Aerophysics Section 7131-1, Aero and Thermodynamic Department.



Dwayne has been with Sandia Corporation four years engaged in aerodynamic research.

For seven years prior to joining Sandia he was an aerodynamic engineer with the Ordnance Aerophysics Laboratory at Daingerfield, Tex.

Dwayne attended Texas A&M College earning his Bachelor's degree in 1949 and his Master's degree the following year. Both were in aeronautical engineering. He was a member of the Honor Society in college.

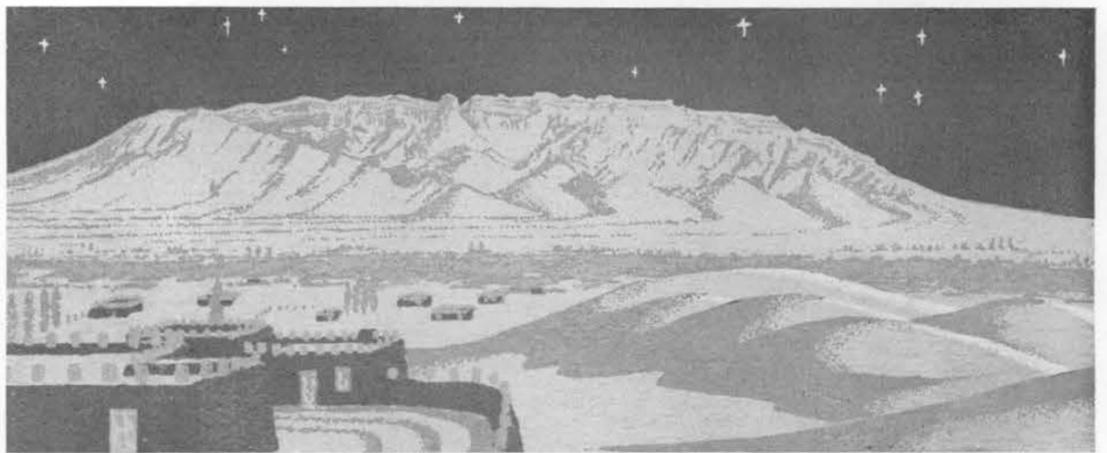
In 1945-47 he performed intelligence work at Fourth Army Headquarters in Germany.

Sandia Employees at Livermore Provide Christmas Dinners

Christmas dinners for four needy families were provided by volunteer contributors at Livermore Laboratory. The families were "adopted" by the Livermore employees through the help of the Christmas basket committee of the Council of Social Planning.

Sixteen children in the families also received needed items, such as shoes and clothing.

Two Livermore Laboratory organizations, 8114 and 8223-3, also contributed toys, food and clothing to brighten up Christmas for other needy families.



VIEW FROM LOS ALTOS of Albuquerque and the Sandia Mountains inspired the drawing which is the cover of Sandia Corporation's Christmas card this

year. In the left foreground is the walled pueblo-style community of Los Altos outlined by luminarias. Eight Sandia families reside at Los Altos.

Holiday Lights

Los Altos Luminaria Display Will Again Attract Thousands

Los Altos is a walled pueblo-style community of about 30 homes perched on the West Mesa. The view of Albuquerque and the Sandia Mountains from Los Altos is magnificent.

Every year at Christmastime, Los Altos itself becomes a magnificent sight. The residents of the community, including eight Sandia families, light some 6000 luminarias. The entire community—roofs, walks, walls and streets—is outlined in the soft glowing lights of the luminarias.

This scene is depicted on the Christmas card used by Sandia Corporation this year.

To Jim Marsh (3423-2) and other members of the Los Altos Civic Association, the lighting of the luminarias is a tradition that goes back 10 years in their community.

"But the tradition of luminarias," Jim points out, "was started by the earliest Spanish settlers of the Southwest who lit small fires on Christmas Eve to guide the arrival of Joseph and Mary to the inn. This was usually part of a community Christmas pageant."

Community participation at Los Altos includes joint purchase of the 6000 candles and brown paper sacks to make the luminarias, plus every resident participating in the placement and lighting of the luminarias on Christmas Eve.

"It takes about an hour," Jim says, "after the bags have been prepared and if the weather isn't too bad."

When the luminarias are lit, traffic through the community becomes practically bumper-to-

bumper. Youngsters of Los Altos direct the cars through the curved streets. For the past couple of years, Los Altos has been one of the highlights of the Albuquerque Chamber of Commerce-sponsored Christmas lighting tour. As many as 13 busloads of people have made the tour.

Sandians who live in Los Altos include Jim, C. J. McGarr (4600), Florencio Baca (4574), L. L. Lavanier (4361), L. H. Stratford (2533), H. E. Harling (3428), Maude McCarthy (1312) and F. E. McCulloch (1112).

A. Marie Thompson to Retire Dec. 30 After Eleven Sandia Years

A. Marie Thompson, who has worked in Sandia's print shop (3462) for 11 years, will retire Dec. 30.



Mrs. Thompson will remain in Albuquerque and continue to make her home at 721 Kentucky SE with her married daughter, Betty McKinstry, who also works at Sandia in Division 3462. Two grandchildren—a girl eight years old and a boy a year and a half—will help keep her busy.

Aside from family, Mrs. Thompson is looking forward to gardening and visiting a sister in Salt Lake City.

Contract Let for Remodeling Work On Building 854

Bradbury and Stamm Construction Co., Inc., Albuquerque, is apparent low bidder for modifications to Bldg. 854, according to an announcement by the Atomic Energy Commission. The firm's bid of \$72,395 was the lowest of seven received.

The work will include remodeling a portion of the existing building including general construction, heating, ventilating and evaporative cooling, plumbing, electrical power and lighting services, and new sewer and water services.

Work is to be completed within 100 days after the contractor receives notice to proceed from the AEC.

The remodeled area of the building will be utilized as office space for Control and Field Inspection Department 2710. The modification will also provide laboratory space for Inspection and Evaluation Department 2720.

Plant Engineering project engineer is V. E. Kerr (4543-3).

Sandia Men Help Author Handbook on Rocket Sled Design

Area III Laboratory Division 7323 personnel have contributed three sections to "Rocket Sled Design Handbook," a new book by McGraw-Hill Publishing Company. D. L. Krenz and W. H. Cross collaborated on "Sandia Corporation Test Track Safe Operating Procedures" and "Photographic Information and Types of Tests." D. W. Bauder contributed "Sandia Corporation Track."



FASCINATION of lighted luminarias is reflected in the faces of Los Altos children. From left are Ann Marsh, Ricky Lavanier and Pam Harling. Some

6000 luminarias are used each year as a Christmas Eve display. Sponsored by the Los Altos Civic Association, the annual tradition started 10 years ago.



Robert P. Matthews
7223
Jan. 2, 1946



Arlan E. Hudgens
7214
Dec. 26, 1950



Susana Navarrette
3126
Dec. 13, 1950

10 YEAR AWARDS



Buford M. Eagan
7124
Dec. 26, 1950



W. S. McElvaney
4232
Dec. 26, 1950



Bennie A. Montoya
2722
Dec. 26, 1950



Jose J. Perea
4575
Dec. 26, 1950



Daniel E. Grim
2534
Jan. 5, 1946



Arnold E. Dulz
2724
Dec. 27, 1950



Herold F. Kingsbury
4513
Dec. 27, 1950



Joseph Lazarr
7244
Dec. 27, 1950



Loya A. Robinson
4513
Dec. 27, 1950



Wilma Archbald
4234
Dec. 28, 1950



Dennis Cordova
4153
Dec. 28, 1950



Gordon Gaskill
2722
Dec. 28, 1950



Ralph O. Work
1432
Dec. 27, 1950

Five Years

Dec. 24-Jan. 6

Richard E. Demo 8114, R. M. Ferguson, Jr. 3465, Robert A. Harley 2534, William A. Jenkins 8233, C. A. Loveless, Jr. 8153, A. Marie Willis 3126, Manuel Cordova 4614, Edward G. Dlouhy 4412, Wilbur F. Cronk 4413, F. N. Rebarchik 1113.

Policy Changed on Lab News Observance Of Service Awards

As time passes changes take place and one of these changes is going to be in the method the SANDIA CORPORATION LAB NEWS observes service anniversaries of Sandia employees. From now on, pictures of employees receiving 10-year service awards will not appear, but their names and organizations will be listed. Pictures will continue to be published of those receiving 15-year awards. Also the LAB NEWS will no longer list the names of employees receiving five-year awards. The LAB NEWS is having space problems and the large number of 10-year service anniversaries to be observed in the future would take upwards of a page of space in some issues.



Albert P. Askren
4513
Dec. 29, 1950



Fonzo B. Cossell
4512
Dec. 29, 1950



Everett C. Dow
7522
Dec. 29, 1950



John M. Farnor
4251
Dec. 29, 1950



John D. Mafit
3122
Dec. 29, 1950



Rambert Rivera
2642
Dec. 29, 1950



Joseph J. Roof
4212
Dec. 29, 1950



Neal R. Carpenter
1413
Jan. 2, 1951



Dale O. Cook
8141
Jan. 2, 1951



Inez H. Gay
4234
Jan. 2, 1951



Kenneth Gillespie
1332
Jan. 2, 1951



Norbert K. Molter
4412
Jan. 2, 1951



Rollin L. Schneider
2714
Jan. 2, 1951



L. Marvin Guier
7535
Jan. 3, 1951



Woodrow Glasscock
4514
Jan. 4, 1951



Dorothy Mae Lewing
3466
Jan. 4, 1951

SHOPPING CENTER

CLASSIFIED ADVERTISING

Deadline: Friday noon prior to week of publication unless changed by holiday.

RULES

1. Limit: 20 words
2. One ad per issue per person
3. Must be submitted in writing
4. Use home telephone numbers
5. For Sandia Corporation and AEC employees only
6. No commercial ads, please
7. Include name and organization.

FOR SALE

- GAS RANGE, 42", \$25. Mills, AX 9-4752.
- CHICKEN CAGES, egg cartons and miscellaneous. Sell or trade for cow or calves. Penn, BU 2-3997.
- RESIDENTIAL LOT, 75'x135', near \$30,000 homes, Montgomery Heights Estates, NE, utilities close. \$2,200 (\$1,200 down). Morrow, DI 4-8461.
- COMPLETE SET Books of Knowledge with annuals, \$25; pool table 84"x42" w/ cues & balls; \$50. Brown, AL 5-0566.
- SHOPSMITH w/accessories, \$200; antique maple rocking chair, \$60; guitar, \$130 Kay for \$50; western saddle, youth size, \$40. Galbreath, DI 4-4306.
- STUDIO COUCH, makes into bed, \$20. Frame, AX 9-8195.
- GAS RANGE, Roper, 6-burner, 4 burners, \$45. Malone, AL 6-4559.
- PANEL BED metal, single, with spring, mattress, \$20 or best offer; child's chest of drawers, \$5. Adams, AX 9-0454 after 5 p.m.
- ICE SKATES, boy's size 2, girl's size 12; fireplace screen; new electric hand-mixer; laundry tub; trailer hitch; screen door. Nelson, AL 6-6300.
- AMERICAN FLYER, electric, freight train set and accessories, \$10. Sutton, AL 5-8056.
- NORGE, gas range with electric pilots. De Baca, DI 4-3369 after 5:30 p.m.
- STEREO TAPE recorder, VM, model 714, with amplifier-speaker companion piece. Graeber, AX 8-0662.
- CHIHUAHUAS: female, silver-fawn type, 3 years old, \$15; male, 1 1/2 years old, \$25. Desks, \$15 and \$20. Eversgerd, AL 6-6345.
- AUTOMATIC WASHER, Hotpoint, best \$35 Christmas present you could buy. Jolly, 11212 Snow Heights Blvd. NE, AX 9-6979 after 5:30 p.m.
- BOY'S 26" bicycle, \$10. Blasyk, AL 5-2218 after 5 p.m.
- '50 STUDEBAKER with damaged grill, radiator and right fender but good motor, R&H, battery and tires, \$45. Haley, DI 4-3919.
- GIBSON GUITAR, electric ES 225 TD model; cut-away, dual pick-up; built-in Bigsby tremolo; sunburst finish, \$195. Anglin, DI 4-0517.
- '60 ENGLISH Ford Anglia, 2-dr., white sedan, mileage 65, R&H, signals, white-walls, new \$1700 car for \$1300 cash. K. Longfellow, AM 8-2838 evenings.
- TABLE, Duncan Phyfe, drop leaf with extra leaf, \$25; bicycle, boy's 20", balloon tires, \$10. Barth, AX 9-2668.

- LOT in Chelwood Park Addition, \$1550. Gross, AX 8-1500.
- '60 ENGLISH Ford Consul convertible, gray, burgundy trim, mileage 165, heater, signals, whitewalls. New \$2700 automobile for \$2200 cash. C. Longfellow, AX 8-2838 evenings.
- SOFA, \$18, matching chair, \$18, both for \$30. Daniels, AM 8-1128.
- TRAMPOLINE for children up to 85 lbs., 6' by 8' tarp, 8' x 10' overall, \$30. Beyeler, AL 5-9571.
- '52 NASH Ambassador, overdrive transmission, reclining seats, R&H, \$200 or best offer. Mrs. Edaburn, 9017 Phoenix Ave. NE, AX 9-2350.
- TWIN BEDS, Simmons Beautyrest, \$70; dinette sets, five pieces: chrome gray, \$15; chrome blue, \$35; wrought iron, \$25. Engquist, AX 9-8312.
- DRESSER, blond, 6-drawers w/large mirror, matching night stand, both for \$50. Lindsey, AX 8-0818.
- '53 AERO-WILLYS sedan, \$200. Goldenberg, AX 9-5034.
- VACUUM CLEANER, Eureka, needs new armature, \$10. Bradshaw, AX 8-2753.
- HOUSE, 3 bdr., den, 1 1/2 baths, h/w floors, fireplace, large screened patio w/barbeque, sprinklers, stove, refrigerator, drapes, included. Bruner, AX 9-3735.
- '60 FORD Fairlane, R&H, overdrive, 185 hp V-8, \$1895 or swap equity for older car. Reicks, TR 7-2815 after 6 p.m.
- TRAMPOLINE, medium size, portable and collapsible, cost \$50, will sell for \$30. Stuart, AX 9-9190.
- IRONER, angle deluxe, cabinet type, will sell for \$30. Sanchez, CH 2-4556.
- '57 BUICK Super, 4-dr. hardtop, all power, new tires, 33,000 miles, \$950. No down payment with good credit. Underwood, BU 2-3258.
- SCHWINN 26" bicycle, 3-speed, lightweight w/generator light set, new paint, saddle bags, speedometer, \$30. Bidwell, AL 6-0718.
- GILBERT erector set, large, 2 motors, \$15; Heath kit AT-1 25-30 W transmitter, \$15; Remington portable typewriter, \$15. Henderson, AL 6-4794.
- RELOADING DIES and case holder for .65 x 55 mm. Used on only 100 cartridges, \$8. Taylor, AL 6-3774.
- OUTBOARD MOTOR, Johnson 3.5 hp, \$35; Briggs & Stratton power lawnmower, \$35; tenor banjo, \$35; Marine plywood cartop boat, \$35. Crosby, DI 4-8772.
- 3 BDR. house, 1 1/2 years old, deluxe interior, elementary school 300 ft., \$2000 down, \$19,900 total. Chandler, DI 4-6609.
- BUNK BEDS, maple, complete with inner-spring mattresses, \$50. Miller, AM 8-1939.
- FRENCH POODLES, black, miniature, AKC registered, six weeks old, both male and female, \$100. Platt, AL 5-1973.
- NC-98 Receiver, \$90; Heath DX-35 transmitter, \$40; Q-multiplier, \$9; VFO, \$10; SWR meter, \$12; VTVM, \$18; assorted components. Brace, AL 5-7432.
- '51 CHEVROLET, 4-dr. deluxe model with Powerglide and heater, low mileage for age of car, original owner, \$195. Alvino, AL 5-6339.
- REFRIGERATOR, Crosley Shelvador, \$65. McCulloch, AX 9-5463.
- HALLICRAFTERS SX 42 receiver, \$120. Hays, AX 9-2524.

NEXT DEADLINE FOR SHOPPING CENTER ADS Thursday Noon, Dec. 29

- MAGNAVOX Hi-Fi, new diamond point needle, semi-portable, \$50; 1/2 hp single phase electric motor, \$5. Hutton, 1124 Florida SE, AL 5-7435.
- BEAGLE PUPPY, female, 4 weeks old, AKC registered, champion blood lines, papers furnished, \$35. Long, AX 9-1416.
- STERLING SILVER flatware, Westmorland "John and Priscilla," five 6-piece place settings, \$125. Janney, AM 8-8074.
- '47 CHRYSLER, 4-dr. sedan, good transportation, \$125; 1950 Mercury radio, \$10. Garcia, CH 3-3473.
- GAS STOVE, Maytag dutch oven, \$60 or best offer. Kelly, CH 7-9835 after 4:30 p.m.
- '60 RENAULT Dauphine, gray, R&H, whitewalls, 6000 miles, \$1195. Bookwalter, AL 6-0870 after 5:30 p.m.
- BABY STROLLER and high chair, \$5 each. Womelsdorf, AX 9-6269.
- VALIANT transmitter, less than one year old, \$250. Hansen, AM 8-0769.
- BOOKCASE, four shelves 4 ft. high x 4 ft. wide, 8" deep, blond finish (natural ash), \$15. Fox, AL 6-2606.
- 3 BDR house, 1 1/2 baths, carpeted, AC, double garage, walled, sprinklers stucco frame, patio covered, fireplace, near Winrock Center, \$16,000. Blum, AX 9-4655.
- VACUUM CLEANER 1960 GE tank type with all attachments, worth \$70, sell for \$45 or trade for good FM receiver and/or H.F. speaker and enclosure. Johnson, AX 8-1011.
- '58 CADILLAC, 4-dr. hardtop, 19,000 miles, AC, PB, PW, PS and antenna, must sell, sacrifice for \$2650. Strawderman, AX 8-0545.
- 3 BDR house, 1 1/2 baths, fireplace, rugs, drapes, 2 car garage, extras, low down payment \$18,900, 4017 Alta Monte NE. Brown, DI 4-6831.
- ALFALFA HAY, 250 bales, \$1.25 each, 5 miles south of Los Lunas. Berlier, UN 4-8825.
- '46 CHEVROLET coupe, good transportation, \$75; playpen, Cericola, AX 8-2426.
- STEEL WINDOWS, complete, assorted sizes; steel clothes line and posts. Li-guori, AL 6-3613.
- SKIS, poles, boots, women's or girl's, size 5 1/2 to 6; 4 ft. sled, \$10. Chandler, DI 4-6609.
- '60 VOLKSWAGEN, standard equipment plus Wolfsburg radio, fuel gauge, leatherette upholstery, 5200 actual miles. Mortley, AL 5-1420.
- '50 CHEVROLET, 2-dr., \$125. Luckett, AL 6-2346 after 5 p.m., all day Sat. & Sun.
- OXY-ACETYLENE welding outfit, \$40; heavy duty 24" throat jig saw, \$50. Grymkoski, AX 9-4053.
- GIRLS BICYCLE, 26" American style, \$10. Hurford, AX 9-9477.
- WESTBEND coffeeemaker, never used, \$8; recently reupholstered sectional sofa bed, brown, \$75; never used occasional chair, \$10. Schultz, 9009 Cottonwood NE, AX 8-2731.

- PICK UP, 1960 Ford V-8, 1/2 ton, 4-speed styleside, custom cab, 6 plys (mud & snow), turn signals, heavy duty springs, large heater, radiator, 13,000 miles. Schuetz, CH 2-3510.
- '50 FORD, 2-dr., \$200. Saavedra, CH 3-9133.
- BOWLING SHOES, boy's or girl's, for left hander, size 5, used 3 times, \$3. File, DI 4-8853.
- CHIHUAHUA puppies \$35 each, nice gift for children, wonderful pets. Armstrong, AM 8-2124 after 5:30 p.m.
- 21" TV, 1954 Sylvania, new picture tube, guaranteed one year, blond table model, \$75 or best offer. Balz, CH 3-7560.
- WASHER, Bendix automatic, \$35. Bentz, AM 8-8267.
- POODLE PUPPIES, miniature, black, 10 weeks old, just in time for Christmas. Warn, 3014 San Rafael SE, AL 6-0602.
- GIRLS BICYCLE; 1/2 hp electric motor; heavy duty trailer hitch; Zenith radio phone combination; portable record player. Cox, 510 Espanola NE, AL 6-1977.
- '53 FORD convertible, radio, heater, fordomatic. Arnold, AL 6-4664.
- STEEL GUITAR, electric, Hawaiian, w/amplifier and music stand. Best offer. Murray, DI 4-5289.
- CHIHUAHUAS, AKC registered, 7 weeks old. Metzger, DI 4-5759.
- '59 LARK, 6 cylinder, standard transmission, 5600 miles. Brooks, AM 8-8959.

WANTED

- HAPPY HOME for pretty gray and white female kitten. Will deliver Christmas eve. Tatum, TR 7-0997.
- CAR POOL members, Carlisle Plaza area near McKinley Jr. High to gate four. Rose, DI 4-8592.
- TO TRADE electric guitar and amplifier for good 12 ga. shotgun. Pritchard, AM 8-6430.
- RIDE from vicinity Girard and Monterey or Garfield to 880 or 892 lot. Hudgens, CH 7-8296.
- TO MEET person experienced in Bonsai. Davis, AX 9-3384.
- TWO MEMBERS for car pool living in vicinity of 6800 block of North Fourth. Revels, DI 4-3033.
- RIDE or car pool from Inez Addition to Bldg. 836. Cazier, AX 9-0340.
- TO JOIN carpool from North Valley to Bldg. 800. Address: 5811 Trail Ct. NW (just off 4th St.). Alarid, DI 4-8166.
- RIDERS. Residence, 1228 Central SW, 1 punch time clock. Huston, CH 3-9635.

FOR RENT

- 2 BDR. APT. in brick triplex w/stove & refrigerator, storage space, water and garbage paid, 528 Cardenas SE. Tillman, AL 5-6292 after 6 p.m.
- 2 BDR HOUSE, carport, in Bel-Air, close to school and bus, water paid, available Dec. 30. Austin AX 9-8598 after 6 p.m.
- 3 BDR HOUSE, 1 1/2 baths, den, close to Monroe, Park Twain, Pius X, patio, beautiful yard, \$125. Massey, AX 8-1468.
- 3 BDR HOUSE 1 1/2 baths, carpet throughout, attached garage, water paid, \$90, ready for occupancy. Stamm AM 8-1335.
- 2 BDR. APTS., unfurnished, \$80, rent free until Jan. 15. Hunter, 316 Texas SE, Apt. D, AX 9-1089.

- 3 BDR. HOUSE, unfurnished, 1 1/2 baths, family room, drapes, carpeting, water and garbage paid, Princess Jeanne, 1724 Shirley NE. Miller, AX 8-0436 after 5:30 p.m.
- TRAILER SPACES in Southwest Valley, \$15 a month. Cummings, CH 2-1061 after 5 p.m., anytime Sat. and Sun.
- 1 BDR. HOUSE, walled yard, stove, refrigerator, blinds, near north gate on General Bradley. Balfour, AX 9-7954 after 6 p.m.
- DUPEX APTS., 1 bedroom, unfurnished, stove and refrigerator, 412 Pennsylvania NE. Sharp, AM 8-0302.
- BEL AIR 2 bedroom, \$85, hardwood floors, blinds, walled yard, close to schools, shopping, immediate occupancy. Free rent until 1961. Thompson, AX 9-3416.
- 1 BDR. APT., stove, refrigerator, water and garbage paid, close to bases. Priest, AM 8-1096 after 6 p.m.

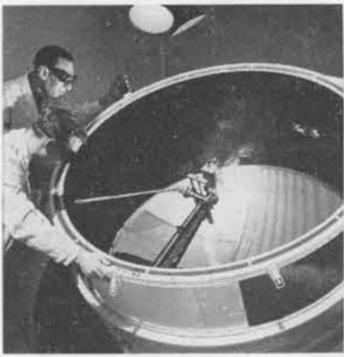
LOST AND FOUND

- LOST: 5 yr. SC pin; dark blue safety prescription glasses; keys in leather case; Indian handmade loop earring set with coral; single key; Standard Oil and Hubbard credit cards in name Anita E. Padilla; book of 4 cent stamps; three \$1 bills; man's blue hat; 10 keys in black Key-Tainer; 3 keys; SC 10 yr. tie clip; blue turquoise cuff link w/devil palm; leather crocheted glove w/leather dancer; black gloves. Lost and Found, ext. 26149.
- FOUND: Penney's Bensus gold bracelet type watch; keys; brown hat with initials MR; grey Mallory hat; oval shape silver cuff link; pipe with taper; long brown knit glove; Mach Buster NAA lapel pin. Lost and Found, ext. 26149.

FOR SALE AT LIVERMORE

- '50 OLDSMOBILE "88", convertible, V-8, automatic transmission, R&H, \$225. Hitchens, HI 7-0682.
- '60 VOLKSWAGEN, deluxe, indigo blue, fuel filter, WW tires, German radio, electric wipers large hubs, \$1,550. Rogers, HI 7-0201 after 8:00 p.m.
- PACEMAKER Speed Graphic, 4 x 5, Heiland flash gun, film pack adapter, cut film holders, filters, carrying case, processing equipment, \$280. Becktell, HI 7-0521.
- 3 BDR HOUSE, two baths, wall-to-wall carpeting, 5 1/4" loan, G.E. electric kitchen, fireplace, landscaped, redwood fence, drapes. Sturkie VI 6-2583.
- SHETLAND horse colt, six months old, \$90. Ayen, HI 7-3834 after 5:00 p.m.
- SEARS ROEBUCK "Moped" motor bike, 1200 miles, original cost \$200, asking \$150. Williams, HI 7-6329.
- PARIANCI saddle, \$50. McMin, Ext. 2202.
- '60 ENCYCLOPEDIA Britannica, new, free equity, with bookcase. Ivin, Ext. 2539.
- TWO BEDROOM SETS; one cooler. Geary, Ext. 2437.
- '57 MGA red roadster, black upholstery, tonneau cover, heater, wire wheels, \$1,500. Bell, HI 7-1175.
- MONTGOMERY WARD sewing machine, console, all attachments including button-holer, make offer. Tockey, HI 7-4075.
- RACE CAR body, 7' polyester and glass, \$30; air compressor; vacation trailer for rent, sleeps five. Gregory, HI 7-5269.

First Year of 'Soaring 60's' Busy at Sandia Corporation



High temperature solar furnace



Chariot study in Alaska



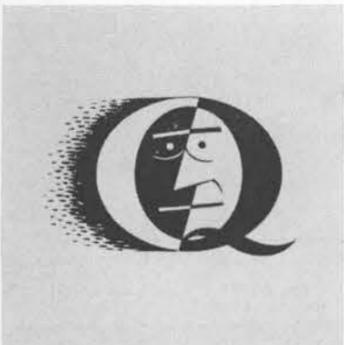
Armed Forces Day Visitors



Huge crater left by Scooter shot



Laboratory Bldg. 861



Livermore's new security symbol



Graduating apprentices



Top safety award for Livermore



Livermore United Fund drive



Radar target at Tonopah

The year 1960 brought about many changes as this review of articles which appeared in the LAB NEWS will indicate.

Peacetime research projects, reorganization and a continuing search for knowledge on the part of employees were some of the activities during the 12 months.

January

Applications were taken for Sandia's first Electronics Apprenticeship program. The four-year program includes on-the-job training, theory and classroom study.

D. S. Tarbox was promoted to Director of Security and Industrial Relations 3200. His predecessor in the position, G. A. Parker, was transferred to WE's Hawthorne Works as Superintendent of Relay and Capacitor Shops.

Kenneth A. Smith was also promoted to Director of Information, Publications and Public Relations 3400.

Mr. "Q" was adopted as symbol of security at Livermore Laboratory.

February

James W. McRae, Sandia Corporation President from September 1953-October 1958, died suddenly in New York City. At the time of death he was vice president of the American Telephone and Telegraph Company.

J. P. Molnar, President, and G. A. Fowler, Vice President, Research, were named Fellows of the Institute of Radio Engineers for their outstanding contributions to radio engineering or allied fields.

More than 1000 employees were enrolled in the spring semester out-of-hours courses. In addition, about 400 employees were furthering their education on the university level under the Educational Aids Program.

March

Project Cowboy, seismic effect studies based on 17 high explosive tests in a salt mine near Winnfield, La., was concluded. Sandia Corporation employees from Albuquerque and Livermore participated.

Livermore Laboratory supported preliminary study for the Alaska "Chariot" portion of Project Plowshare, involving the potential use of nuclear explosions for peaceful purposes.

Announcement was made by the AEC that Salton Sea Test Base in California will be placed on a standby basis by mid-1961.

A briefing was held at Sandia Laboratory for AEC Chairman J. A. McCone and other high AEC officials.

The entire Development Shops in Bldg. 840 were closed down so that employees could attend the graduation of the first five men to complete Sandia's apprenticeship program for machinists.

April

Materials and Standards laboratories and offices moved into newly-completed Phase I of Bldg. 861.

A second solar furnace went into operation for use in testing of materials in temperatures up to 7000 degrees F.

The AEC approved construction and site preparation for Project Gnome—detonation of nuclear explosives in a tunnel in the salt bed formation near Carlsbad, N. M. The project is part of the Plowshare series.

The AEC let a \$279,000 contract for additions to the Tonopah Ballistics Range in Nevada.

May

On Armed Forces Day thousands of visitors crowded through Sandia's Sphere of Science to view 17 scientific and technical exhibits.

Valley Memorial Hospital supplemental drive opened at Livermore Laboratory with employees pledging \$26,261, including a Corporate gift of \$3,000. The total contributed by employees and the Corporation hit \$64,819.

June

A contract was awarded by the AEC for installation of a Cockcroft - Walton accelerator for use by Physical Sciences Re-

search Department and Electrical Standards Division.

Livermore Laboratory participated in Plowshare Project Pinot, chemical high explosive studies investigating the use of nuclear explosives for peaceful purposes.

Sandia Corporation's Group Retirement Plan has been in effect for 10 years. In addition to those persons already retired, an additional 189 employees are 75 per cent vested in the plan.

Livermore Laboratory received the National Safety Council Award of Honor in recognition of 3,101,421 man-hours worked without a disabling injury.

July

Supplemental agreements were signed between Sandia Corporation, the Metal Trades Council and the Office Employees International Union covering wages and Health Care Plan changes. The contracts will terminate July 5, 1961.

Sandia Laboratory employees were excused from work to attend a special open air ceremony at which Dwight A. Ink, Assistant General Manager, AEC, presented a large trophy to President Molnar in recognition of the Lab's all-time nationwide AEC-contractor safety record. On July 1, Sandia Lab's record was 12,722,170 man-hours without a disabling injury.

Livermore Lab, at the same ceremony, received the AEC's Award of Honor for 3,101,421 employee hours without a disabling injury.

Bids were received for construction of buildings to house a pulse nuclear reactor. The \$550,000 facility will be located near the larger Sandia Engineering Reactor.

August

Fiscal Year 1960 construction at Sandia Laboratory totaled nearly \$8,000,000, including new buildings, additions and modifications to existing buildings and facilities.

S. P. Schwartz was named President of Sandia Corporation, effective Sept. 1, succeeding J. P. Molnar, who returned to Bell Telephone Laboratories to become Executive Vice President on Dec. 1. Three new vice presidents were named and three new directors were appointed.

Fourteen on-roll engineer Staff Members were selected to enroll in the second year of the Technical Development Program. A group of 70 newly-hired engineers will also start the TDP during the University of New Mexico's fall term.

The Department of Defense Scientific Advisory Committee on Ballistic Missiles met at Sandia Laboratory to review the nuclear ordnance program.

Representatives of the Albuquerque Guards Union, Local 27, and Sandia Corporation signed a one year supplemental agreement on wages and Health Care

Plan participation.

A bid of \$1,279,000 was accepted by the AEC for construction of the new Research Building, Phase II of Bldg. 861.

September

Sandia Corporation facilities at Cocoa Beach, Fla., were damaged slightly by Hurricane Donna.

Sandia Laboratory's national safety record was terminated at 14,936,168 employee-hours when an electrician at a Sandia site injured his knee while descending a powerline pole.

The fourth annual ECP drive was underway at Sandia Laboratory to benefit 33 health, welfare and youth service agencies.

Seven more machinist apprentices completed the two and a half year training to become journeymen.

Sixty out-of-hours courses were offered at Sandia Laboratory with a record number of student-employees expected.

United Bay Area Crusade at Livermore resulted in \$9,711 collected from employees and a Corporation gift of \$1,550.

October

"Scooter" test, part of Plowshare program, left a huge crater in the Nevada desert. Blast of 1,000,000 lbs. of TNT was largest conventional chemical high-explosive detonation in the U. S. Sandians participated in the project.

Members of the Plowshare Advisory Committee met at Sandia Laboratory to discuss safety aspects of the proposed Plowshare Projects Gnome (underground nuclear explosion near Carlsbad, N. M.) and Chariot (Alaskan excavation experiment).

November

Sandia Corporation co-sponsored a 12-day National Security Seminar for Albuquerque civilian leaders and Armed Forces reserve officers.

The Sandia Corporation employees sought political posts in the general election. All but two were successful.

Technical and Trades Training Division was pleased with new technique in teaching — Programmed Self Instruction. Three courses have been utilizing this new industrial education method.

Livermore Laboratory management was represented at a Washington, D. C., dinner honoring participants in the development of the Polaris missile.

December

Final figure for the recent ECP drive at Sandia Laboratory was \$136,740, with employees accounting for \$124,240 of the total.

Arrangements were completed for Operation Moonlight—three TNT blasts to disperse natural uranium in Albuquerque's southeast area. Data from collection devices will help determine effects of accidents involving nuclear reactors or chemical explosives in nuclear weapons.



ABOUT THE NICEST part of Christmas is the giving and receiving of gifts. Here Joan Jackson (4413-4), after the hours of Christmas shopping, puts the finishing wrapping on presents she will be giving.

Sandia's Safety Record

**Sandia
Laboratory
HAS WORKED
150,000 MAN HOURS
OR 5 DAYS
WITHOUT A
DISABLING INJURY**

**Livermore
Laboratory
HAS WORKED
4,182,556 MAN HOURS
OR 1769 DAYS
WITHOUT A
DISABLING INJURY**